- SAFAPS SIM ARCHITECTURE DOCUMENT

Jeremy Harrault

SWORDFISH

– SAFAPS SIM –	Publication date	26/01/2016	– SPARCS –
Stress and Fatigue			5. 7 · 55
Audit and Prediction	Project name	SAFAPS SIM	Software Product Architecture Resources Control System
Service Simulator	Subject	Architecture Document	Resources Control System
	Chapter name	Objectives of this document	

Objectives of this document

The purpose of this document is to present the architecture of the SAFAPS SIM project. It will contain diagrams as well as explanations to describe the architectural choices in order to fulfil the requirements. The information contained in the document act as a guide in order to fully develop, deploy and setup SAFAPS. Reflexions and reviewed decisions are tracked in this document.

– SAFAPS SIM –
Stress and Fatigue
Audit and Prediction
Service Simulator

Publication date	26/01/2016
Project name	SAFAPS SIM
Subject	Architecture Document
Chapter name	Objectives of this document

– SPARCS –Software Product ArchitectureResources Control System

Glossary and Terminology

-A-

API: Application Programming Interface

-S-

S&F: Stress and Fatigue

SAFAPS: Stress and Fatigue Audit and Prediction Service

– SAFAPS SIM –Stress and Fatigue	Publication date	26/01/2016	- SPARCS -
Audit and Prediction	Project name	SAFAPS SIM	Software Product Architecture Resources Control System
Service Simulator	Subject	Architecture Document	Resources Control System
	Chapter name	Document Description	

Document Description

Title	SAFAPS SIM : Architecture Document		
Creation date	25/01/2016		
Publication date	26/01/2016		
Product Owner	Augustin Tataru	taau15md@student.ju.se	
Authors	Jeremy Harrault	hajr15bp@ju.se	
Subject	Architecture Document		
Model version	1.0		
Document version	0.2		

Revisions table

Date	Rev.	Author	Modified Section(s)	Comments
25/01/16	0.1	Jeremy Harrault	All	Add empty sections
28/01/16	0.2	Jeremy Harrault	5.	Add context and database view

– SAFAPS SIM –
Stress and Fatigue
Audit and Prediction
Service Simulator

Publication date	26/01/2016
Project name	SAFAPS SIM
Subject	Architecture Document
Chapter name	Table of Contents

– SPARCS –
Software Product Architecture
Resources Control System

Table of Contents

1.	Introduction and Management Summary	1
2.	General Architecture Principles	2
3.	Architectural Design Decisions	3
4.	Viewpoints	4
5.	Views	5
6.	Quality Property Summary	7
7 .	Important Scenarios	8
8.	Issues Awaiting Resolution	9
9.	Appendices	10

List of Tables

Aucune entrée de table d'illustration n'a été trouvée.

List of Figures

Aucune entrée de table d'illustration n'a été trouvée.

– SAFAPS SIM –	Publication date	26/01/2016	– SPARCS –
Stress and Fatigue			Software Product Architecture
Audit and Prediction	Project name	SAFAPS SIM	Resources Control System
Service Simulator	Subject	Architecture Document	Resources control system
	Chapter name	Introduction and Management	
		Summary	

1. Introduction and Management Summary

– SAFAPS SIM –	Publication date	26/01/2016	– SPARCS –
Stress and Fatigue			Software Product Architecture
Audit and Prediction	Project name	SAFAPS SIM	Resources Control System
Service Simulator	Subject	Architecture Document	Resources Control System
	Chapter name	General Architecture Principles	

2. General Architecture Principles

– SAFAPS SIM –	Publication date	26/01/2016	– SPARCS –
Stress and Fatigue			Software Product Architecture
Audit and Prediction	Project name	SAFAPS SIM	Resources Control System
Service Simulator	Subject	Architecture Document	Resources Control System
	Chapter name	Architectural Design Decisions	

3. Architectural Design Decisions

– SAFAPS SIM –Stress and Fatigue	Publication date	26/01/2016	– SPARCS –
Audit and Prediction	Project name	SAFAPS SIM	Software Product Architecture Resources Control System
Service Simulator	Subject	Architecture Document	Resources Control System
	Chanter name	Viewnoints	

4. Viewpoints

- 4.1. The context viewpoint
- 4.2. The functional viewpoint
- 4.3. The information viewpoint
- 4.4. The concurrency viewpoint
- 4.5. The development viewpoint
- 4.6. The deployment viewpoint
- 4.7. The operational viewpoint

– SAFAPS SIM – Stress and Fatigue	Publication date	26/01/2016	– SPARCS – Software Product Architecture Resources Control System
Audit and Prediction	Project name	SAFAPS SIM	
Service Simulator	Subject	Architecture Document	
	Chapter name	Views	

5. Views

5.1. Context view

SAFAPS SIM is a system that is mainly used by external systems from organizations.

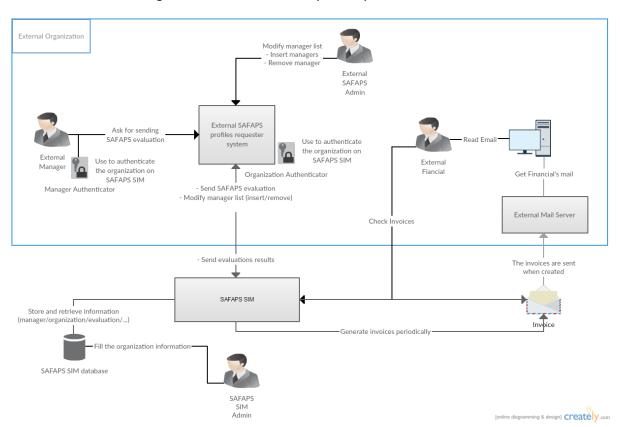
Managers from such organizations can send SAFAPS through their external system to SAFAPS SIM and get authenticated using unique authenticating keys. Managers cannot interrogate SAFAPS SIM directly.

Once the evaluation result is ready, it is sent back to the external system.

When managers are added or removed from the external system, it can notify SAFAPS SIM so that they are added or removed in SAFAPS SIM too.

External organizations' financials can consult invoices for the organization in two ways. He can either consult them from his mail or directly from SAFAPS SIM website. Indeed, when an invoice is generated by SAFAPS SIM, it is automatically sent to the external organization.

SAPAFS SIM is a simulation software. To limit the work to do on the back-end of SAFAPS website, the information about the organizations is filled in the system by the SAFAPS administrators.

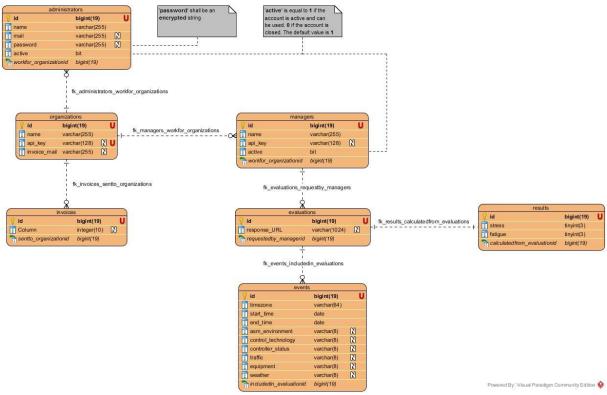


– SAFAPS SIM –			
Stress and Fatigue			
Audit and Prediction			
Service Simulator			

Publication date	26/01/2016
Project name	SAFAPS SIM
Subject	Architecture Document
Chapter name	Views

SPARCS –Software Product Architecture Resources Control System

5.2. Database view



– SAFAPS SIM –	Publication date	26/01/2016	– SPARCS –
Stress and Fatigue			- SPARCS - Software Product Architectur
Audit and Prediction	Project name	SAFAPS SIM	Resources Control System
Service Simulator	Subject	Architecture Document	Resources Control System
	Chapter name	Quality Property Summary	

6. Quality Property Summary

– SAFAPS SIM –	Publication date	26/01/2016	– SPARCS – Software Product Architecture Resources Control System
Stress and Fatigue			
Audit and Prediction	Project name	SAFAPS SIM	
Service Simulator	Subject	Architecture Document	
	Chapter name	Important Scenarios	

7. Important Scenarios

– SAFAPS SIM –	Publication date	26/01/2016	– SPARCS – Software Product Architecture
Stress and Fatigue			
Audit and Prediction	Project name	SAFAPS SIM	Resources Control System
Service Simulator	Subject	Architecture Document	Resources Control System
	Chapter name	Issues Awaiting Resolution	

8. Issues Awaiting Resolution

– SAFAPS SIM –	Publication date	26/01/2016	– SPARCS – Software Product Architecture Resources Control System
Stress and Fatigue			
Audit and Prediction	Project name	SAFAPS SIM	
Service Simulator	Subject	Architecture Document	
	Chapter name	Appendices	

9. Appendices